

Preface .....	vii
Acknowledgments .....	ix
Group Photograph .....	x

## PART I: THEORY

Are Advanced Potentials Anomalous? .....	3
M. Ibison	
Reverse Causation and the Transactional Interpretation of Quantum Mechanics .....	20
J. G. Cramer	
Multiple Interaction-free Measurement as a Challenge to the Transactional Interpretation of Quantum Mechanics .....	27
A. C. Elitzur and S. Dolev	
Schrödinger Equation for Joint Bidirectional Evolution in Time .....	44
G. E. Hahne	
Entropy and Information Transmission in Causation and Retrocausation .....	62
G. Moddel	
The Arrow of Time and the Action of the Mind at the Molecular Level .....	75
J. E. Burns	
Retrocausation and the Thermodynamic Arrow of Time .....	89
D. P. Sheehan	
From the Dynamics of Coupled Map Lattices to the Psychological Arrow of Time .....	105
H. Atmanspacher, T. Filk, and H. Scheingraber	
Investigation of a Complex Space-time Metric to Describe Precognition of the Future .....	121
E. A. Rauscher and R. Targ	
Retrocausation or Extant Indefinite Reality? .....	147
J. M. Houtkooper	
Physics without Causality—Theory and Evidence .....	169
R. Shoup	

## PART II: EXPERIMENT

Psychophysiological Evidence of Possible Retrocausal Effects in Humans .....	193
D. I. Radin	
Harmonic Oscillator Model for Radin's Markov-Chain Experiments .....	214
D. P. Sheehan and J. H. Wright	
Empirical Research on the Radical Subjective Solution of the Measurement Problem. Does Time Get Its Direction through Conscious Observation? .....	238
D. J. Bierman	
Anomalous Anticipatory Responses in Networked Random Data .....	260
R. D. Nelson and P. A. Bancel	
Retrocausal Information Flow: What Are the Consequences of Knowing the Future? .....	273
Y. H. Dobyns	
Self-organization of Temporal Structure—A Possible Solution for the Intervention Problem .....	293
W. von Lucadou	
Purported Evidence and Feasible Interpretations of Retrocausation .....	316
F. Palikari	

## PART III: GENERAL

Encounters at the Frontiers of Time: Questions Raised by Anomalous Human Experiences .....	329
R. S. Broughton	
Re-inventing the Universe: How Retrocausality, Non-locality and Consciousness Studies Subvert the Understanding of Nature in Terms of Object-like Qualities .....	340
E. Bouratinos	
Author Index .....	361